

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 2    | "5914701".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2007/07/08 12:16 |
| S1    | 13   | "5995858"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/03/03 14:54 |
| S2    | 2    | ("5995858").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/09/16 13:54 |
| S3    | 22   | (spread adj1 spectrum) and ((random near3 number) same clock same divid\$4)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/09 18:55 |
| S4    | 2    | ("5792668").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/03/09 18:55 |
| S5    | 4    | ("3909721").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/03/14 12:22 |
| S6    | 2    | ("4623890").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/03/14 12:23 |
| S7    | 2    | ("6314129").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2005/03/14 12:23 |
| S8    | 65   | (random\$4 with clock) same (select with frequencies)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/09/16 14:02 |
| S9    | 1    | (random\$4 with clock) same (select with frequencies) and (measur\$4 with (spread adj1 spectrum)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/09/16 13:55 |
| S10   | 33   | (spread adj1 spectrum) same (physiological)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/09/16 14:06 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S11 | 33  | ((spread adj1 spectrum) same (physiological)) and (spread adj1 spectrum)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 14:17 |
| S12 | 17  | "5792668"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 18:01 |
| S13 | 13  | S12 and impedance  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 15:22 |
| S14 | 42  | (generat\$4 with (random adj1 numbers)) same (divid\$4 with (clock adj1 signal)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 15:28 |
| S15 | 50  | (random adj1 number) same (divid\$4 with (clock adj1 signal))                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 15:28 |
| S16 | 8   | S15 not S14  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 15:31 |
| S17 | 130 | random with (divid\$4) with (clock adj1 signal)                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 15:32 |
| S18 | 2   | 375/130-153.ccls. and random with (divid\$4) with (clock adj1 signal)            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 15:33 |
| S19 | 130 | random with (divid\$4) with (clock adj1 signal)                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 15:46 |
| S20 | 5   | "6494829"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 15:47 |
| S21 | 2   | "6407978"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 15:47 |
| S22 | 11  | "6407987"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/09/16 15:48 |

## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S23 | 2    | "5792668".PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/04 14:18 |
| S24 | 1    | S23 and computer  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/16 18:17 |
| S25 | 1    | S23 and computer and interference   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/16 18:17 |
| S26 | 1    | S23 and computer and error  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/09/16 19:23 |
| S27 | 2    | ("5792668").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/03 14:56 |
| S28 | 1890 | (spread adj1 spectrum) with random  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 14:57 |
| S29 | 122  | (spread adj1 spectrum) with (random near3 frequencies)                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 14:57 |
| S30 | 1    | (spread adj1 spectrum) with (random near3 frequencies) and physiological              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 14:58 |
| S31 | 122  | (spread adj1 spectrum) with (random near3 frequencies)                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 15:05 |
| S32 | 2    | ("6407987").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/04 11:33 |
| S33 | 23   | (spread adj1 spectrum) same ((select\$4 or choos\$4) with (random near3 frequencies)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 15:06 |
| S34 | 60   | (spread adj1 spectrum) and ((random adj1 number) same divid\$4)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/03 15:19 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S35 | 67  | (spread adj1 spectrum) and ((random adj1 number) same divid\$4)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 15:22 |
| S36 | 26  | (frequency adj1 hop) same (random adj1 number)                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 15:23 |
| S37 | 0   | (frequency adj1 hop) same ((random adj1 number) same divid\$4)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 15:24 |
| S38 | 37  | (frequency adj1 hop) same ((random same divid\$4)                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 15:23 |
| S39 | 11  | (frequency adj1 hop) and ((random adj1 number) same divid\$4)                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 15:50 |
| S40 | 33  | ((random near3 frequencies) same (clock adj1 signal)) and (frequency adj1 hop\$4) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 15:56 |
| S41 | 18  | (frequency adj1 hop) and (random same divid\$4 same clock)                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 15:56 |
| S42 | 2   | ("3291908").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/03 15:54 |
| S43 | 110 | (spread adj1 spectrum) and (random same divid\$4 same clock)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 15:56 |
| S44 | 109 | S43 not S40   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 15:57 |
| S45 | 98  | S44 not S41   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/03 17:42 |
| S46 | 2   | ("5792668").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/03 18:30 |

## EAST Search History

|     |    |  |   |    |     |                  |
|-----|----|--|---|----|-----|------------------|
| S47 | 1  | S46 and (noise or interference)            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/03 18:31 |
| S48 | 37 | (spread adj1 spectrum) same physiological  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/04 11:53 |
| S49 | 13 | (frequency adj1 hop\$4) same physiological | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/04 11:53 |
| S50 | 0  | S49 and impedance                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/04 11:40 |
| S51 | 62 | (spread adj1 spectrum) same ultrasound     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/04 11:53 |
| S52 | 62 | (spread adj1 spectrum) same ultrasound     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/04 13:00 |
| S53 | 62 | S52 and (spread adj1 spectrum)             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/04 12:36 |
| S54 | 2  | ("6622560").PN.                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/04 12:37 |
| S55 | 1  | "6350240".PN.                              | USPAT;<br>USOCR                             | OR | OFF | 2006/03/04 12:36 |
| S56 | 0  | S55 and (spread adj1 spectrum)             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/04 12:37 |
| S57 | 1  | "6343510".PN.                              | USPAT;<br>USOCR                             | OR | OFF | 2006/03/04 12:40 |
| S58 | 1  | "6309356".PN.                              | USPAT;<br>USOCR                             | OR | OFF | 2006/03/04 12:40 |
| S59 | 1  | "6155980".PN.                              | USPAT;<br>USOCR                             | OR | OFF | 2006/03/04 12:41 |
| S60 | 1  | "6010456".PN.                              | USPAT;<br>USOCR                             | OR | OFF | 2006/03/04 12:53 |
| S61 | 1  | "5964706".PN.                              | USPAT;<br>USOCR                             | OR | OFF | 2006/03/04 12:57 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S62 | 1   | "5964706".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/04 12:57 |
| S63 | 1   | "5938611".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/04 12:57 |
| S64 | 1   | "4848354".PN.   | USPAT;<br>USOCR                             | OR | OFF | 2006/03/04 12:57 |
| S65 | 175 | (spread adj1 spectrum) same ultrasonic  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/04 13:00 |
| S66 | 15  | ((spread adj1 spectrum) same ultrasonic) and (heart)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/04 13:02 |
| S67 | 15  | ((spread adj1 spectrum) same ultrasonic) and (heart) and (spread adj1 spectrum) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/04 13:08 |
| S68 | 49  | random near3 (Barker adj1 code)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/04 13:36 |
| S69 | 20  | (ultrasonic) same (frequency adj1 hop\$4)                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/04 13:37 |
| S70 | 2   | ("5995858").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/04 13:41 |
| S71 | 2   | "5792668".PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/04 14:19 |
| S72 | 1   | S71 and impedance   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/04 14:45 |
| S73 | 2   | (ultrasound) same (random adj1 frequencies)                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/04 14:45 |
| S74 | 38  | (spread adj1 spectrum) same physiological                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/18 15:33 |

## EAST Search History

|     |    |  |   |    |     |                  |
|-----|----|--|---|----|-----|------------------|
| S75 | 2  | ("5381798").PN.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/18 15:37 |
| S76 | 2  | ("5792668").PN.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/18 15:38 |
| S77 | 1  | 375/130-153.ccls. and physiological          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/18 15:39 |
| S78 | 17 | 375/130-153.ccls. and patient                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/18 15:41 |
| S79 | 12 | 600/301.ccls. and (spread adj1 spectrum)     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/18 15:41 |
| S80 | 12 | 600/301.ccls. and (spread adj1 spectrum)     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 15:43 |
| S81 | 19 | 600/316-328.ccls. and (spread adj1 spectrum) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 16:28 |
| S82 | 19 | S81 not S80                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 15:47 |
| S83 | 9  | (spread adj1 spectrum) near4 patient         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 15:50 |
| S84 | 10 | (spread adj1 spectrum) near4 physiological   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 15:51 |
| S85 | 3  | (spread adj1 spectrum) near4 (heart)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 15:51 |
| S86 | 4  | (spread adj1 spectrum) near4 (blood)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/21 07:43 |

## EAST Search History

|     |    |  |   |    |     |                  |
|-----|----|--|---|----|-----|------------------|
| S87 | 0  | (spread adj1 spectrum) near4 (respiration)             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 15:51 |
| S88 | 0  | (spread adj1 spectrum) near4 (contact near3 impedance) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 15:51 |
| S89 | 16 | (spread adj1 spectrum) near4 (contact)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 15:51 |
| S90 | 21 | (spread adj1 spectrum) near4 (impedance)               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 15:52 |
| S91 | 16 | (spread adj1 spectrum) near4 (tissue)                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 15:52 |
| S92 | 60 | S85 or S86 or S89 or S90 or S91                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/18 15:52 |
| S93 | 17 | 600/442-447.ccls. and (spread adj1 spectrum)           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/08 16:20 |
| S94 | 1  | (physiological same despread\$4)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/21 07:43 |
| S95 | 0  | (physiological same de-spread\$4)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/21 07:43 |
| S96 | 0  | (despread\$4) near4 (blood)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/21 07:44 |
| S97 | 0  | (despread\$4) same (blood)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/21 07:44 |
| S98 | 0  | (despread\$4) same (tissue)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/21 07:44 |



## EAST Search History

|          |      |                               |   |    |     |                  |
|----------|------|-------------------------------|---|----|-----|------------------|
| S99      | 0    | (despread\$4) same (oxygen)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/21 08:04 |
| S10<br>0 | 0    | ("20020136264.pn.").PN.       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/21 08:38 |
| S10<br>1 | 2    | ("20020136264").PN.           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/21 08:38 |
| S10<br>2 | 0    | S101 and (despread\$4)        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/21 08:38 |
| S10<br>3 | 0    | S101 and (de-spread\$4)       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/21 08:38 |
| S10<br>4 | 11   | XAUI adj1 receiver            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/22 13:44 |
| S10<br>5 | 11   | ("XAUI" adj1 receiver)        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/22 13:45 |
| S10<br>6 | 428  | ("XAUI")                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/22 13:45 |
| S10<br>7 | 3    | ("XAUI").ti.                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/22 13:50 |
| S10<br>8 | 87   | ("XAUI") same lanes           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/22 18:23 |
| S10<br>9 | 3    | (parallel near3 inteference)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/22 18:24 |
| S11<br>0 | 2246 | (parallel near3 interference) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/22 18:24 |

## EAST Search History

|          |      |   |   |    |     |                  |
|----------|------|---|---|----|-----|------------------|
| S11<br>1 | 362  | (parallel near3 interference) and vector  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/22 18:24 |
| S11<br>2 | 43   | cancel\$4 near3 (parallel near3 interference) and vector  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/22 18:24 |
| S11<br>3 | 59   | 375/130-153.ccls. and ((spread adj1 spectrum) same (body or human or patient))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/08 16:16 |
| S11<br>4 | 33   | (600/442-447.ccls. or 600/407.ccls. or 600/473-476.ccls. or 600/425-430.ccls. ) and (spread adj1 spectrum)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/08 16:31 |
| S11<br>5 | 6111 | (600/442-447.ccls. or 600/407.ccls. or 600/473-476.ccls. or 600/425-430.ccls. ) and ((pseudorandom or pseudo-random) adj2 code or signal or sequence)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/18 16:37 |
| S11<br>6 | 12   | (600/442-447.ccls. or 600/407.ccls. or 600/473-476.ccls. or 600/425-430.ccls. ) and ((pseudorandom or pseudo-random) adj2 (code or signal or sequence))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/11/08 16:32 |
| S11<br>7 | 4    | ((("5843139") or ("5683432"))).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/11/09 08:44 |
| S11<br>8 | 45   | (spread adj1 spectrum) same physiological   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/18 16:28 |
| S11<br>9 | 283  | (600/442-447.ccls. or 600/407.ccls. or 600/473-476.ccls. or 600/425-430.ccls. ) and (cross-correlat\$4 or crosscorrelat\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/18 16:52 |
| S12<br>0 | 47   | (600/442-447.ccls. or 600/407.ccls. or 600/473-476.ccls. or 600/425-430.ccls. ) and ((cross-correlat\$4 or crosscorrelat\$4) same (transmit\$4 or transmission) same (receiv\$4 or reflect\$4)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/18 17:36 |
| S12<br>1 | 84   | (electrodes same (spread adj1 spectrum))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/18 17:01 |

## EAST Search History

|          |     |   |   |    |     |                  |
|----------|-----|---|---|----|-----|------------------|
| S12<br>2 | 47  | (electrodes with (spread adj1 spectrum))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/18 17:04 |
| S12<br>3 | 101 | (electrodes with (spread adj1 spectrum)) and (spread adj1 spectrum)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/18 17:22 |
| S12<br>4 | 3   | (spread adj1 spectrum) near2 Golay  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/18 17:37 |
| S12<br>5 | 8   | (spread adj1 spectrum) near4 Golay  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/18 17:37 |
| S12<br>6 | 18  | (impedance same (crosscorrelat\$4 or cross-correlat\$4)) and (heart or respiration) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/18 18:38 |
| S12<br>7 | 1   | "5113869".pn. and electrode   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/19 11:51 |
| S12<br>8 | 1   | "5113869".pn. and electrode   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/19 11:53 |
| S12<br>9 | 1   | "5113869".pn. and (electrode same impedance)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/19 12:05 |
| S13<br>0 | 20  | "5995858"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/19 12:06 |
| S13<br>1 | 2   | "5995858".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/19 12:17 |
| S13<br>2 | 2   | "6407987".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/19 12:17 |
| S13<br>3 | 14  | "6048315"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/07/08 10:45 |

## EAST Search History

|          |    |   |   |    |     |                  |
|----------|----|---|---|----|-----|------------------|
| S13<br>4 | 2  | "6048315".pn.                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/07/08 12:15 |
| S13<br>5 | 1  | "6048315".pn. and spread\$4               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/07/08 10:46 |
| S13<br>6 | 1  | "6048315".pn. and Golay                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/07/08 10:48 |
| S13<br>7 | 14 | (Golay near4 spread\$4)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/07/08 10:50 |
| S13<br>8 | 37 | (Golay with spread\$4)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/07/08 10:54 |
| S13<br>9 | 42 | (Golay same (spread\$4 adj1<br>spectrum)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/07/08 10:59 |
| S14<br>0 | 2  | ("4743753").PN.                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/07/08 10:59 |